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Transmitted herewith for filing under 35 U.S.C. 111 and 37 C.F.R. 1.53 is the patent application of:

THIRU SRINIVASAN

For: "AUTOMATIC DESKTOP AUDIO/VIDEO/DATA CONFERENCING DISTRIBUTOR FIELD OF THE INVENTION"

Enclosed are:

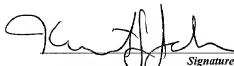
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Dated: **August 31, 1999**


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**22193**

PATENT TRADEMARK OFFICE

File No. 1539(42059-00840)

**AUTOMATIC DESKTOP AUDIO/VIDEO/DATA
CONFERENCING DISTRIBUTOR**

jc551 U.S. PTO

09/386787**08/31/99****FIELD OF THE INVENTION**

The present invention relates to a system for facilitating communications between parties using personal computers and, more particularly, to a system which provides for establishing lines of communication over a data network or telephone lines, and provides for establishing lines of communication in a number of different modes, such as audio, video, and/or data.

BACKGROUND OF THE INVENTION

Many companies and other organizations possess phone systems which direct callers to agents employed by the business. The voice calls can originate from either the Public Switched Telephone Network (PSTN) or the Internet. When calls are placed, the callers are typically queued up in the Customer Premise Equipment (CPE) as in a Private Branch Xchange (PBX) where they hear music or important announcements about the company the callers dialed. An Automatic Call Distributor (ACD), which is part of the CPE, may be programmed to inform callers of their position and the average wait time when the callers enter the queue. However, many systems will not provide updates to the caller with regards to the status of the position or the wait time in the queue thereafter.

An ACD is a software package that runs on a PBX or central office switch. It is programmable via either the Call Management System (CMS) or the touch of the keypad of a telephone set, i.e. a supervisor can issue commands to alter characteristics of splits in the ACD. Agents may log into their assigned splits based on the skills. They manage their own states by using the touchtone pad of the telephone sets.

The supervisor may also have access to the CMS which is an adjunct of the PBX. This adjunct system allows the supervisor to set up a profile of an agent as belonging to a particular split based on the skills of the agent. For example, the supervisor can set up a default profile for an agent to always log into a Spanish-speaking split. The supervisor, using the CMS, can monitor the performance of the ACD in terms of the call volume to the different splits, average time for the splits to answer an incoming call, etc.

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SUMMARY OF THE INVENTION

It has been recognized that data networks, such as the Internet, are being employed more often for things such as reviewing product information at company websites and for e-commerce. It has further been recognized that network tools such as IP telephony, video conferencing, and real time data interchanges, through such devices such as a white board, may be employed to communicate

with potential customers or clients through a company website.

The system described herein provides for the establishment of lines of communication between users of personal computers and representatives of a business or organization. In operation, a system user may try to contact a business or organization through either a data network such as the Internet, or a direct connection over the Public Switched Telephone Network (PSTN) through use of a modem. Through either method, a connection may be established with a network server controlled by the business or organization. The server may include a number of interactive displays which may be presented to the web browser employed by the system user. Included in the displays may be options on establishing a lines of communication.

In one aspect of the invention, lines of communication may be established in an audio mode, a visual mode, and/or a data mode. In the scenario where a system user selects the audio mode, a connection may be established between the system user and an agent through use of IP telephony. A system user may also select a video conferencing function in which a video and audio connection may be established between the system user and agent. Finally, if the system user selects a data connection, communications between the system user and the agent may be facilitated through the use of a white

board with which the parties may exchange textual messages.

In another aspect of the invention, the server is connected to a data network, like the Internet, and a system user, through use of a dialup connection to an Internet Service Provider (ISP) and a web browser, may establish a connection with the server. Alternatively, the server may be equipped with a modem and a connection to a PSTN. A system user, with a modem and a phone connection, may then dial up the network server directly.

Once a system user has established a connection, the server may provide a number of interactive screen displays with which a system user may interact to further establish a connection with a representative in a desired mode of communication. One screen display which may be provided is a informational input display in which a system user would input a name and possibly an account number in order for the system to locate personal information about the system user stored in memory. Once accessed, this information can be provided to the representative who will connect with the system user.

As with most customer service systems, there may be times when a representative is not available to whom a connection may be established. For this situation, a queue may be provided in which a system user's connection may be routed until a representative becomes available. In conjunction with being routed to the queue, the system

user may be presented with another screen display which provides status information as to the system user's connection. This status information may include the number of other system users in the queue, and an
5 estimated length of wait before a connection may be established with an agent. For situations in which the system user chooses not to wait in order to establish a connection, a screen display may be presented in which the system user may enter information regarding
10 identification and times and numbers for receiving a telephone call from an agent.

In another aspect of the invention, while the system user is in the queue, screen displays may be presented which include hypertext links to designated websites.
15 These links may be to informational websites for the organization or business which the system user is contacting, as well as a number of other sites that may be of interest. The system is configured such that selection of one of the hypertext links does not remove
20 the system user's connection from the queue.

Once an agent is identified to receive the connection, another screen display may be presented to the system user which includes different selections for modes of communication. As described above, these
25 selections may include an audio, video and/or data connection. Once a system selects a particular mode, the system will facilitate the connection.

Before or during a connection with the agent, the system user may also be provided with a screen display which includes relevant information about the agent to whom the connection has or will be established. In particular, this information may include name, telephone number, supervisor's name and number, e-mail address, and any relevant experience.

Upon establishing a connection with an agent, information regarding the system user may be automatically retrieved from a memory and presented to the agent. The agents may be connected to the server over a Local Area Network (LAN), and information regarding the system users may be accessed in the server. In the situation where a video connection will be established, pictures of the system users stored in memory may be accessed and presented to the agent in order to confirm the identity of the party.

In yet another aspect of the invention, the server includes the functionality to distribute the incoming connections of the system users to the agents which are connected to the server through the LAN connection. In general, this functionality includes the ability to route system users to an agent based on compatibility placing the system users in a queue when all of the agents are occupied, routing the connection to agents as they become available, and provide particular personal information for the system users who are being connected. Further

functionality which may be incorporated in the server includes the functionality for agents to log on to the system, change their operating status and input information with regard to the type of system users with which they will receive connections for. As an example, an interactive screen display may be provided to agents from the server through which they can change their availability status with regards to the system. Some examples of status changes include when an agent is available to receive calls, an agent is currently unavailable, and an agent is placing an outgoing call to a customer.

Because agents may have particular skill levels with regards to dealing with system users, the routing of incoming connections to agents may be controlled by storing a profile (i.e. split) for a particular agent in the server memory. Based on the information in the split and the personal information relating to the system user retrieved from the server memory, the connection may be routed to an appropriate agent.

A supervisor may have access to a screen display through which changes may be made to the splits with regards to particular agents. Further, screen displays may also be provided through which a supervisor may monitor the identity of system users either currently connected or in the queue.

BRIEF DESCRIPTION OF THE DRAWINGS

Fig. 1 discloses a diagram for the communications system, including the data network.

5 Fig. 2 discloses an internal system diagram for the communications server.

Fig. 3 discloses an interactive screen display presented to system users upon establishing communications server.

10 Fig. 4 discloses an interactive screen display presented to system users to select a mode of communications.

Fig. 5 discloses a call status window screen display which is presented to system users once a connection has been placed in the queue.

15 Fig. 6 discloses an interactive screen display presented to agents to make status changes.

Fig. 7 discloses a flow chart which describes the routing of connections to agents.

20 Fig. 8 discloses an interactive screen display employed by an agent to change status.

Fig. 9 discloses a screen display which presents statistics as to the performance and profiles of agents.

25 Fig. 10 discloses a screen display which displays information with regards to system users waiting in the queue.

DETAILED DESCRIPTION

Disclosed in Fig. 1 is a diagram for the communications system described herein. The network communications server 18 may be of any number of network servers commercially known. Connections may be established to the network through data network 10, which may be the Internet. The server 18 may also include a dialup connection where connections may be established directly to the server through a Public Switched Telephone Network (PSTN) 15. Finally, direct connections may be established to a number of local computers through a Local Area Network (LAN) type configuration.

The system users, who employ personal computers and like devices, may establish a connection with communications server 18 through at least three different modes. According to one mode of communication, a system user 12 with a personal computer and Web browser software may employ a modem 14 to establish a telephonic connection with Internet Service Provider (ISP) 16. Through the ISP, a connection may be established with data network 10. As is seen in Fig. 1, server 18 is connected as a node on the data network 10.

Another line of communication may be established to the system of Fig. 1, through the PSTN. The user 12, through use of the modem 14, may establish a direct telephonic connection through PSTN 15 to the communications server 18. The communications server

includes a modem adaptable for receiving telephonic communications.

Yet another line of communication may be established through a LAN server with an Internet proxy 13. System users 12 employ personal computers with direct connections to server in order to contact the server 18.

The present system may be employed to establish lines of communication between system users and agents of a business or organization through the use of personal computers. As is well known in the art, many telephone systems now exist today where parties interested in contacting a organization or business may dial up a designated number and a system employed by the organization or business routes the incoming telephone calls to available agents. The present system provides the functionality for the system users who are using a personal computer to establish a connection either over a data network or over the PSTN with an agent.

Once a system user establishes a connection with the communications server, interactive screen displays may be presented to the system user through use of web browser software, and the system user may enter personal information such that further account information may be retrieved from a memory in the server. The communications server may then route the connection along with the personal information to an available agent who has the profile to handle the system user. The system

user may be provided choices for selecting a desired mode of communication.

If when a system user establishes a connection and there are no agents available, the connections may be placed in a queue. While in the queue, the system user may be provided with information as to wait time and position in the queue. Once an agent does become available, the connection may then be routed to the identified agent along with the personal information for the system user. The system further provides for allowing system administrators and agents to make status changes with regards to the operations of the system.

Disclosed in Fig. 2 is an internal system diagram for the communications server 18. In order to establish user connections over the data network 10 a network interface 32 is provided. This interface provides for the two-way transmission of data signals such as those types of signals which would be received and transmitted over the Internet. Also incorporated into the server is modem 33. As was discussed above, this modem provides for a direct connection between a system user and the communications server over the PSTN. The central processor 30 controls the operation of the server and directs the internal signals between the various interfaces and the various memories and processing modules.

In order to provide the various modes of communication, the communications server includes a number of processing modules 34. Some of the processing modules included provide for either audio, video, or data conferencing with system users. The audio 36, video 38 and data conferencing module 40 incorporates the software known in the art in order to establish these types of connections.

Queue processing module 41 provides for the routing of system user connection to a queue and provides the functions which may be performed in the queue by the system user. The use of the queue will be described in greater detail below. Agent processing module 43 provides for all functions performed by agents in order to make status changes and for supervisors to monitor and manipulate information with regards to the agents. These functions will be also described in greater detail below.

Also in connection with processor 30 are a number of different databases which include information employed by the system. Stored in screen display database 44 are the interactive screen displays which are presented to the system users establishing the connection with the server, as well as the agents with whom the system users are communicating. Included in database 46 is specific information as to the profile, or split of a particular agent. A split includes information relating the types of system users which the particular agent may

communicate with. For example, if an agent is proficient in speaking Spanish, when a system user establishes the connection with the communications server, personal information for the system user may note that system user speaks Spanish, and thus the particular agent may provide services for the system user. Included in database 30 is personal, or account, information about the system users who establish a connection with the system. This information, as well as the information in database 46 may be used to populate the screen displays retrieved from database 44.

Customer database 45 contains information relating to the system users who establish a connection with the system. The information contained in this database may include tables which relate account numbers to other profile information with regards to the system user. This information may be things such as purchases made in the past, amounts of money spent, language which the system user wishes to communicate in, as well as any other relevant information which may be of help to an agent.

Another element of the communications server is the LAN interface 42. This interface provides for the connections established between the various personal computers employed by the agents and the communications server.

In operation, a system user may establish a connection with the communications server either through the data network 10 or over the PSTN 15. The web browser incorporated into the system user's computer provides for the system user to establish a connection with the business or organization's web page located on the communications server 18. Through access of this web page, a number of additional functions may be performed.

Disclosed in Fig. 3 is a web page which a system user may be presented when a connection is initially established with the communications server. Included in this web page are a number of interactive features which allow a system user to enter information about themselves such as name and account numbers. For example, in Fig. 3 the web page 49 includes dialogue boxes 50 and 52 which request that a system user enter their name and account number, respectively. Upon entry of this information in the appropriate dialogue box, the enter button may be selected and the information entered.

After the information is entered, a screen display such as that disclosed in Fig. 4 may be presented to the system user. Through this interactive display graphic 56, the system user may select the mode of communication to be used when communicating with an agent of the organization or business. As seen in the example display graphic, three modes of communication are available for selection. If button 58 is selected, an audio connection

is established employing IP telephony. As is currently known in network technology, many software packages are available which when installed on the server and used in conjunction with plugins incorporated into web browsers, provide for audio communication between parties. If the video button 60 is selected, a video and audio connection may be established between the parties. As with the audio selection, video conferencing software and hardware packages are available for making such a connection. These packages include Microsoft meeting or Netscape Conference.

Another communication mode provided on the interactive display graphic 56 is data conferencing. Upon selection of button 62, the server will establish a data conference between the system user and the designated agent. For this situation, the parties activate software which presents a white board upon which textual messages may be exchanged. Commercial software packages (NetMeeting for example) are also available to perform these functions.

Once a connection has been established to the server and a system user chooses a particular mode of communication, the system connects the system user to an agent, if one is available. However, the situation may exist where no agent is available to receive the communication. In this case, the system user may be provided the option of entering information in a screen

display such that the business or organization operating the communications server may contact the system user directly. Disclosed in Fig. 5 is a screen display which may be employed for this purpose. Various dialog boxes are included in the screen display for entering personal information. This information may include date and time for a call back 59 and 61, respectively, name 51, home or work telephone number 52, e-mail 55, video conferencing 57, or data conferencing 63 addresses. Once the system user is finished entering the information it is then stored in the system memory.

Once the call back information is entered in memory it may be periodically searched by the system in order to perform call back functions. The call back functions include searching the stored information for dates the call back should occur, and when relevant dates are located, notifying an available agent who may then initiate the call back.

If the system user chooses to wait for an available agent, the system may then place the connection in a queue where it is held until an appropriate agent becomes available. If the system user chooses to move the connection to the queue, display graphic 64 disclosed in Fig. 6 is presented to the system user. This display graphic provides a variety of different kinds of information which may be useful to the system user. Dialogue box 68 provides status information to the

connections being placed in the queue. As seen in the example, when an audio call is placed, different steps for the status of the connection are displayed. Included may be a call ringing statement, a call answer statement and a call placed in the queue because no agents are available.

Once a connection is placed in the queue, the system will provide additional information and dialogue boxes 72 and 74 as to a system users position in the queue and the estimated wait before a connection to an agent may be established. The position may be determined by the number of system users previously connected. The estimated wait may be determined through an algorithm which provides an average call length for the call currently in connection. As an additional feature, the interactive display graphic 64 may include a hypertext link 70 provided by the business or organization controlling the server, which when selected, connects the system user to the organization's or company's home page such that the system user may view information as to products and services. Using the web browser, the system user may move through the various pages provided by the system user without moving out of the queue. Finally, the interactive display graphic 64 may include a banner advertisement transmitted from the communications server using Push technology. While the system user is waiting

in the queue, the advertisement may be changed on a periodic basis.

When an agent becomes available, the connection may then be routed to this party. The routing of a call from the queue to an available agent will be done using the domain address of an agent. The domain address of the agents and the supervisors will not be known to the customer unless the agent discloses them voluntarily. Prior to the connection the selected agent may be provided with the identification information about the system user. The system user, in turn, may be provided with a screen display which includes various types of information about the selected agent. This information may include the agent's name, telephone number, supervisor's name and number, e-mail address, and any relevant experience. A connection may then be established between the system user and the agent according to the mode selected by the system user. As was mentioned above, both the system user's computer and the agent's computer include the necessary processing submodules in order to facilitate the chosen mode of communication. Upon completion of the connection, regardless of the mode, the parties may simply press the disconnect button included on the screen display and the connection will be terminated.

Disclosed in Fig. 7 is a flowchart which describes in detail the operations of the communications server

when a system user is establishing a connection in order to communicate with an agent of a business or organization. Initially, when the system user connects with the communications server, a screen display is presented through which the system user may enter a user name and or password. Once this information is entered, a search of the database in the communications server is performed to retrieve the profile of a particular system user. Based on the information retrieved, an analysis may be performed to identify an agent qualified to communicate with the system user. If there is not an available agent, the system user is presented with a screen display which provides a choice as to whether the system user wishes to enter a queue to wait for an available agent, or they would prefer to leave a message to be contacted later by an agent.

If the system user wishes to leave a message, a screen display is presented through which the system user may enter communications information. This information may include e-mail addresses or telephone number. The system user is then disconnected from the server.

If the system users chooses to wait in the queue, the communications server will move the connection to the queue where the system user will be presented with a screen display which contains information as to position in the queue and the wait time. As described above, a hypertext link may be provided for the system user to connect with other web sites while waiting. At any time while system user is in the queue, the option is

available to opt out and enter information for receiving a call back.

Once an available agent is identified either initially or after a wait in the queue, a screen display will be presented to the system user through which a mode of communication may be selected. Once the desired mode is selected, a connection will be established between the system user and the available agent. In conjunction with establishing the connection, the communication server provides the agent with the personal information for the system user which was retrieved from memory. The system user may also be presented with a screen display which includes information about the selected agent. Upon completion of the interchange between the system user and the agent, either party may terminate the session.

The system described herein further includes the functionality to automatically route connections and manage and monitor the performance of the agents. When an agent is ready to begin work and begin receiving connections from system users, a log-in procedure is performed. Once this procedure is performed, the processor, through the agent processing module, may monitor which agents are currently logged in, which agents are available to receive calls, and the profile, or splits of the agents currently connected which is used to route the connections to the appropriate parties. The procedure for assigning calls will be described in greater detail below.

Once an agent logs in, an interactive display graphic such as that disclosed in Fig. 8 is presented. Through this display graphic, the agent may change his or her status with regards to receiving connections. If the available button 78 is selected, this indicates to the communications server that the agent is ready to begin receiving connections. If the AUX-work button 80 is selected, this indicates that the agent is currently unavailable for receiving connections. This may be due to work currently being performed on a previous connection or when the agent is on a break.

If the out-call button 82 is selected, this indicates to the communications server that the agent is currently placing an outgoing call to a customer. This feature may be programmed so that as soon as the connection is terminated and button 80 is not selected, the agent is available to receive additional connections. Finally, if the agent selects log-out button 84, the agent is logged out of the system. Provided on the display graphic is dialogue box 86 which provides notice to the agent, or whoever is viewing the screen, of the current status of the agent logged in.

As described above, each of the agents who log into the system have a split which includes information as to the profile of the agent stored in memory. Included in the profile may be things such as language proficiency, types of system users which may be routed to them, as

well as statistics regarding length of call and disposition of call. Disclosed in Fig. 9 is an interactive screen display which a supervisor may view with regard to a particular agent. In the display
5 graphic 90, a dialogue box 92 provides the name of the particular agent. In dialogue box 94 is the profile for the agent at issue. Through selection of the edit profile button 98, a supervisor may edit the profile of a particular agent to expand or contract the duties. A
10 final dialogue box 96 may also be provided which lists relevant statistics for the agents.

An additional feature which may also be included in the invention is a screen display which an agent or supervisor may view in order to identify the party
15 currently in the queue. Such a screen display 100 is disclosed in Fig. 10. Functionality may be provided to route parties to the particular agents based on this identification. For example, if a supervisor views the queue and identifies a person to be an important person
20 based on a system users domain address, the supervisor has the ability to deal with this party in a special manner. Determination of the VIP status may be done based on several factors. For example, volumes of purchase, average purchase price, etc. The supervisor
25 may be allowed to move such callers in the queue to another split or direct each individual caller to an agent of his or her choice.

The foregoing description of the present invention has been presented for purposes of illustration and description. Furthermore, the description is not intended to limit the invention to the form disclosed
5 herein. Consequently, variations and modifications commensurate with the above teachings, and the skill or knowledge of the relevant art, within the scope of the present invention. The embodiments described hereinabove are further intended to explain best modes known for
10 practicing the invention and to enable others skilled in the art to utilize the invention in such, or other, embodiments and with various modifications required by the particular applications or uses of the present invention. It is intended that the appended claims be
15 construed to include alternative embodiments to the extent permitted by the prior art.

CLAIMS

What is claimed is:

1. A communications system comprising:

5 a user interface through which users may establish a connection with the system through use of a personal computer;

a agent interface through which agents may establish a connection with the system through a personal computer;

10 a central processor which provides for establishing a line of communication between the users and the agents based on a mode of communication selected by the user;

a user memory which includes personal information for the user that have established a line of communication, wherein the central processor retrieves the user information when a connection is detected, and
15 said user information is presented to the agent with which a line of communication has been established; and

a queue within which connections to the user may be directed when a first predetermined condition is detected
20 by the processor, and which may be connected with an agent when a second predetermined condition is met.

2. The system of claim 1 wherein the mode of communication include at least one of: audio communication, video communication, and data
25 communication.

3. The system of claim 1 wherein the user interface provides a connection to a data network and the

users establish a connection through the interface using a web browser.

4. The system of claim 3 wherein the data network is the Internet.

5 5. The system of claim 1 wherein the user interface provides for connections established over a Public Switched Telephone Network (PSTN).

6. The system of claim 1 wherein the system is incorporated in a network server.

10 7. The system of claim 1 wherein agent interface provides for connections established over a Local Area Network (LAN).

15 8. The system of claim 1 wherein the first predetermined condition is unavailability of an agent, and the second predetermined condition is the agent becoming available to receive the connection stored in the queue.

9. The system of claim 1 wherein the system further includes an agent monitoring module through which the agents may log into the system and amend status information.

10. The system of claim 9 wherein performance information may be accessed and viewed through use of the agent monitoring module.

25 11. The system of claim 3 further including a first memory which includes user interactive screen displays

which are presented to the users that have established a connection through the user interface.

12. The system of claim further including a second memory which includes agent interactive screen displays
5 which are presented to the agents that have established a connection through the agent interface.

13. The system of claim 12 wherein the status includes at least one of: agents currently active, identification information for connections in the queue,
10 change of agent status.

14. The system of claim 1 wherein the system further includes a call back processing module which provides for the entry of call back information by the system user, and which periodically performs a search to
15 locate relevant entries for which call back procedures are initiated.

15. A method of providing communications computer users comprising the steps of:

detecting a connection established by at least one user through a user interface;

5 displaying a first interactive screen graphic to the at least one user, wherein the interactive display graphic includes selections as to a desired mode of communication and provides for entry of selected information;

10 based on the selected information entered, retrieving from a memory personal information relating to the at least one user;

performing a search to determine if an agent is available to establish a connection with the at least one user;

15 if an agent is available, providing the personal information to the agent through a second screen display and establishing the connection between the user and the agent according to the mode of communication chosen by the at least one user; and

20 if an agent is unavailable, placing the at least one user's connection in a queue until one of the agents becomes available, wherein a connection is established between the user and the agent according to the mode of communication chosen by the at least one user

25

16. The method of claim 15 wherein, when a connection is placed in the queue, presenting a third interactive screen display which includes least one hypertext link to the at least on user, wherein a
5 connection is established to a designated website when one of the hypertext links is chosen.

17. The method of claim 15 wherein the at least one user establishes a connection over a data network.

18. The method of claim 17 wherein the data network
10 is the Internet.

19. The method of claim 15 wherein the at least one user establishes a connection over the PSTN.

20. The method of claim 15 wherein the connection to the agent are established over a Local Area Network
15 (LAN).

21. The method of claim 15 wherein the modes of communication include at least one of: video, audio, and data.

22. The method of claim 15 further comprising the
20 step of receiving change in status information from one of the agents, and changing the status of the agent accordingly.

23. The method of claim 15 further including the step of storing performance information for selected
25 numbers of the agents and displaying the performance information up receipt of a valid request.

24. The method of claim 16 further comprising the
step of generating selected information with regards to
the at least one user in the queue and presenting the
selected information to the at least one user through the
5 second interactive screen display.

25. The method of claim 15 further including the
step of if an agent is unavailable presenting a call back
screen display through which the system user may select a
call back option and enter information to facilitate a
10 call back.

26. The method of claim 25 further comprising the
step of periodically searching information entered
through the call back screen and based on the information
stored therein, initiating automated call back functions.

15 27. The method of claim 15 further comprising the
step of presenting to the user an informational screen
display containing personal data with regards to agent
when the connection is established.

ABSTRACT OF DISCLOSURE

A communications system provides for the establishment of audio/video/data connections between system users employing a personal computer and Web browsers, to agents of a business or organization. A business or organization may provide a Web server through which system users may connect either over a data network or over the Public Switched Telephone Network (PSTN). Once connected, various screen displays may be provided through which system users may enter account or other personal information which the server may employ to locate a profile for the system user. A system user may be provided the option to establish communication with an agent in a number of different modes. Once a mode is selected, the system user will be connected with an agent who is best able to serve the system user based on the profile information found in memory. If an agent isn't available, the system is configured such that connections may be entered in a queue and information with regards to position in queue and waiting time can be provided to the system user. Further, functionality is also provided for the system user to search other websites while maintaining their position in the queue.

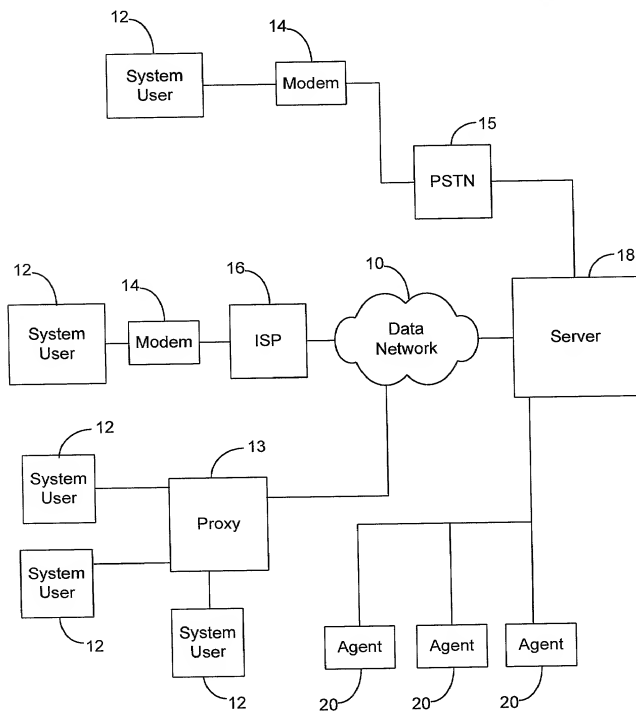


FIG. 1

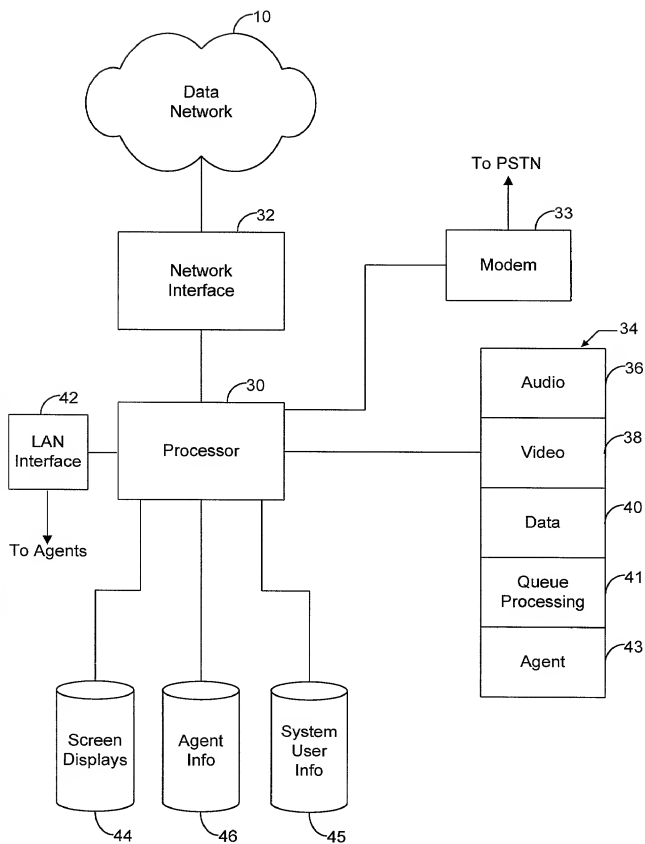


FIG. 2

FIG. 3

WELCOME TO ACNE PRODUCTS

If you wish to contact an agent, please provide the following name:

50

Account Number

52

52

Enter

Cancel

54

49

FIG. 3

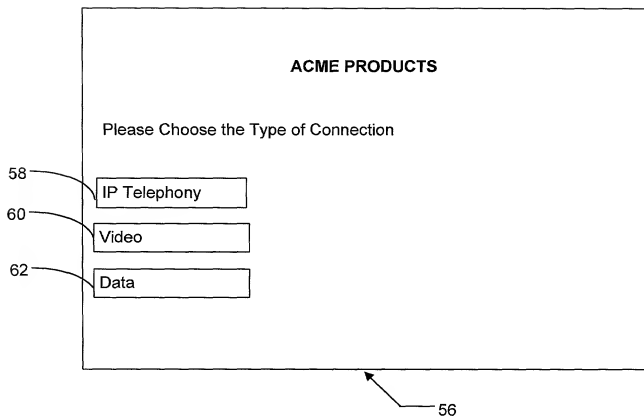


FIG. 4

A form with the following fields and labels:

- Field 51: A long horizontal input box at the top.
- Label Name: Below field 51.
- Field 53: A horizontal input box below the Name label.
- Label Phone Number: Below field 53.
- Field 55: A horizontal input box below the Phone Number label.
- Field 59: A horizontal input box to the right of field 55.
- Label E-Mail Address: Below field 55.
- Field 57: A horizontal input box below the E-Mail Address label.
- Label Call Back Date: Below field 59.
- Field 61: A horizontal input box below the Call Back Date label.
- Label Video Conferencing Address: Below field 57.
- Label Call Back Time: Below field 61.
- Field 63: A horizontal input box below the Video Conferencing Address label.
- Label Data Conferencing Address: Below field 63.
- Buttons: Two buttons at the bottom, labeled "Enter" and "Cancel".

FIG. 5

CUSTOMER SCREEN

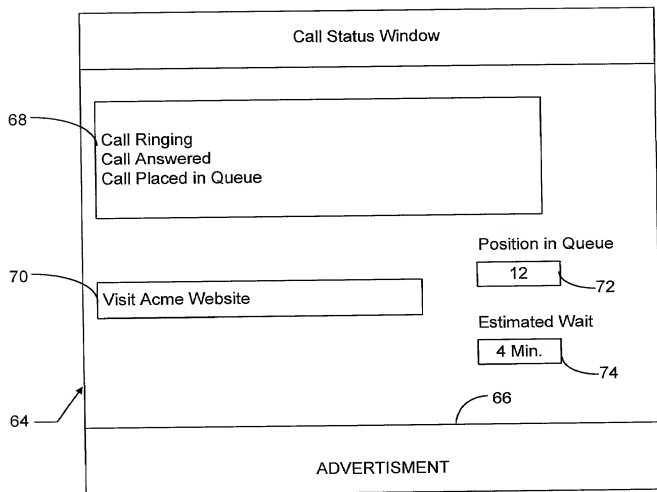


FIG. 6

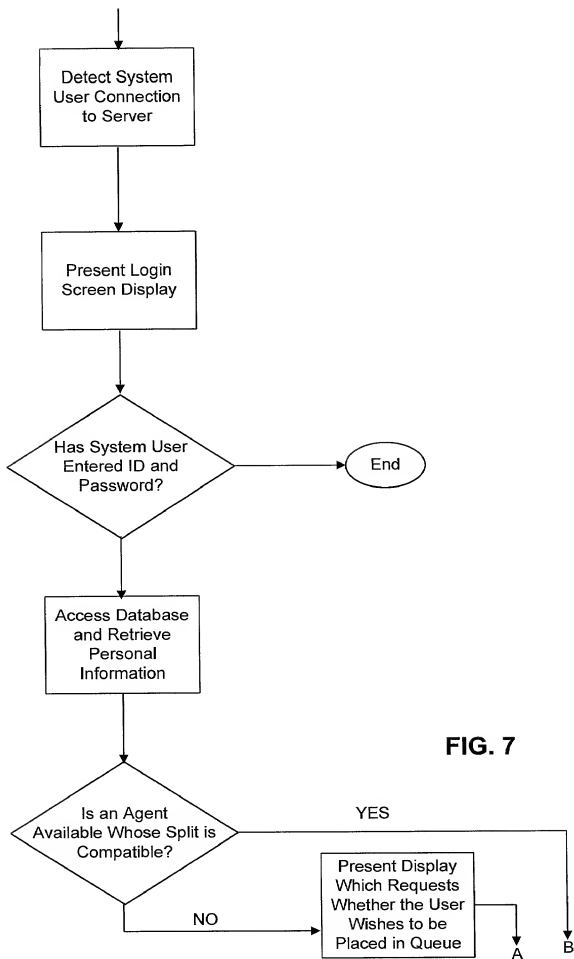
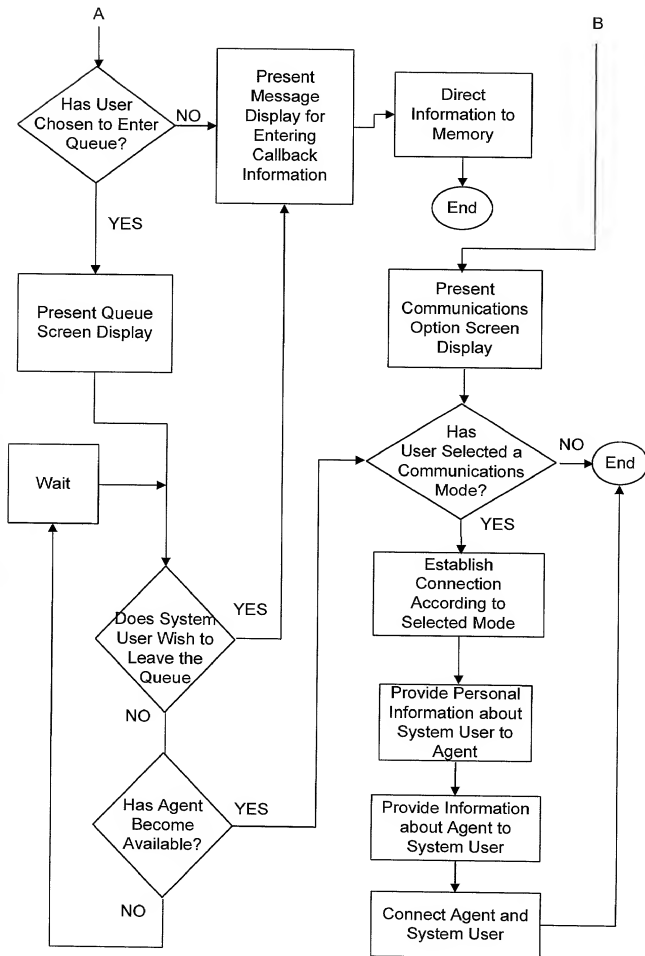


FIG. 7



AGENT WINDOW

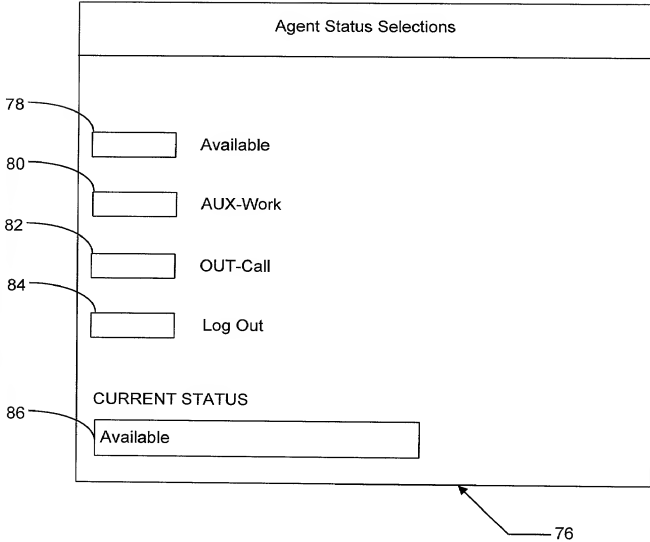


FIG. 8

SUPERVISOR WINDOW

Agent Profile

92 Name

94 Current Profile

96 Statistics

98 Edit Profile

90

FIG. 9

Name	I.P. Address
John Smith	521.362.116
Jane Smith	466.566.366
Bob Jones	987.654.321
Mary Martin	842.636.721

FIG. 10

**22193**

PATENT TRADEMARK OFFICE

Docket No. 1539 (42059-00840)

Declaration for Patent Application

As the sole inventor, I hereby declare that my residence, post office address, and citizenship is stated below next to my name.

I believe I am the original inventor of the subject matter which is claimed and for which a patent is sought on the invention entitled:

"AUTOMATIC DESKTOP AUDIO/VIDEO/DATA CONFERENCING DISTRIBUTOR"

the specification of which (check one):

[X] is attached hereto ☐ was filed on _____ as Application Serial No. _____
and was amended on _____ (if applicable).



I hereby state that I have reviewed and understand the contents of the above-identified specification, including the claims as amended by any amendment referred to above.

I acknowledge the duty to disclose information which is material to the examination of this application in accordance with Title 37, Code of Federal Regulations, § 1.56(a).

I hereby claim foreign priority benefits under Title 35, United States Code, § 119, of any foreign application(s) for patent or inventor's certificate listed below and also identified below any foreign application for patent or inventor's certificate having a filing date before that of the application which priority is claimed:

Prior Foreign Application(s)

Priority Claimed?

(Number) (Country) (Day/Month/Year Filed) ☐ Yes ☐ No

(Number) (Country) (Day/Month/Year Filed) ☐ Yes ☐ No

I hereby claim the benefit under Title 35, United States Code, § 120, of any United States application(s) listed below and insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States application in the manner provided by the first paragraph of Title 35, United States Code, § 112, I acknowledge the duty to disclose material information as defined in Title 37, Code of Federal Regulations, § 1.56(a), which occurred between the filing date of the prior application and the national or PCT international filing date of this application:

(Application Serial No.)

(Filing Date)

(Status: Patented, Pending,
Abandoned)

(Application Serial No.)

(Filing Date)

(Status: Patented, Pending,
Abandoned)

I hereby appoint the practitioners associated with Customer Number 22193 to prosecute this application and to transact all business in the Patent and Trademark Office connected therewith, and direct that all correspondence be addressed to that Customer Number:

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I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further, that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Full name of inventor: Thiru Srinivasan

Inventor's signature: _____

Date: _____

Post Office Address: 9675 South Red Oakes Place, Highlands Ranch, CO 80126

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Residence: 9675 South Red Oakes Place, Highlands Ranch, CO 80126